

C-5.3.1.3 Maintain Emergency Generators

The SP shall maintain emergency generators (i.e., service or provide reactive maintenance). Emergency generators are seven fixed diesel-powered units that provide backup power to production buildings during emergencies or scheduled outages. Table C-5.3.1.3 is a list of the emergency generators and their locations.

Table C-5.3.1.3 - Generators

Nomenclature	Asset Number	Location
Generator Onan 75 KVA	65923X20288	Bldg 83
Generator Onan 49.5 KVA	65923X20542	Bldg 137, Telephone System
Generator Onan 60 KVA	65923X20797	Bldg 3981
Generator Onan 250 KVA	65923011261	Bldg 137, ASKARS
Generator Marathon Electric 56 KVA	65923037038	Bldg 4032, Equip Room
Generator Olympian 75 KVA	65923042386	Bldg 1006, Grid R14
Generator Consolidated Diesel 800 KVA	65923077926	Bldg 4224 Equip Room

The SP shall operate (startup, shutdown, and stow as required) emergency generators when requested on a FEMA work order or as the Government may direct without a FEMA work order under emergency conditions. Normally, the Government will provide a qualified electrician to make and break the electrical connection. Under emergency conditions when a Government electrician is not available, the SP shall make and break the electrical connection. After use, the SP shall request Transportation top off the fuel tank by using the Depot Intranet web address: http://cpweb2/vehiclerequest_dev/VehicleReqEmployeeID.asp.

The SP shall prepare a FEMA work order for all maintenance-related problems when working on or operating an emergency generator. See TE 1.1/CDRL A018 – FEMA Reporting for detailed requirements. See TE 3.4 for a list of emergency generator work orders for fiscal year 2001.

C-5.3.1.4 Maintain Steam Systems

The SP shall maintain, without non-scheduled disruptions to production requirements, all aboveground steam lines and associated equipment from the point at which steam lines enter the steam system in each building.²¹

Aboveground steam lines include all pipes, regulators, valves, strainers, gauges, meters, coils, and traps. Associated equipment includes steam system components of part washers, tanks, air conditioning units, air handlers, and heaters. Such equipment includes associated condensate tanks, pumps, drains, coils, and non-electrical components of control systems.

²¹ The MCAS Facilities Maintenance Department (FMD) is responsible for the central heating plant and all underground steam delivery and return lines, valves, regulators, strainers, and traps.

The SP shall assist the Government in an annual steam trap survey on approximately 892 traps throughout the Depot. See TE 3.5 for steam trap listing and trap locations. The SP shall locate traps, secure steam, and restore steam to secured systems. The SP shall provide this service for 12 hours per day for 18 working days each year. The Government will provide access to the steam traps by providing lifting equipment (e.g., ladders, manlifts, skyjacks, and equipment operators) as required.

The SP shall prepare FEMA work orders for all maintenance-related problems. See TE 1.1/CDRL A018 – FEMA Reporting for detailed requirements.

See TE 3.5.1 for a list of steam system work orders for fiscal year 2001.

C-5.3.1.5

Respond to Sewage and Industrial Waste Spills & Stoppages

The SP shall provide first response containment, cleanup, and repair services for stoppages and spills of industrial waste, sewage, wastewater, and storm water drainage. Sources and drainage systems are located throughout the Depot. Per direction of the Government, the SP shall act to contain spills, overflows, backups, leaks, etc. The SP shall treat all such spills and stoppages as hazardous materials (HAZMAT) situations.

The DGR will notify the SP by the quickest means when a spill or stoppage has occurred. As directed by the DGR, the SP shall provide a three-person working party to report to the spill or stoppage site and begin containment, repair, and cleanup under the direction of a DGR.

Normally this type of situation is an emergency and the SP shall respond without a FEMA work order. The Government will provide a FEMA work order after the fact. The DGR will coordinate HAZMAT, environmental protection, and corrective actions with the appropriate activities.

The Depot does not use individual work orders for sewage and industrial waste spills and stoppages. The Government is moving to correct this situation. Under this PWS, the SP shall perform work as described above with FEMA work orders prepared as practicable. The Government estimates such stoppages and spills at 27 per year.

C-5.3.1.6

Maintain Potable Water Systems

The SP shall provide first response and fault isolation services for all aboveground potable water system leaks and outages within the Depot.²² Aboveground potable water systems include distribution lines, valves, water heaters, eyewash stations, decontamination showers, and lavatory fixtures.

²² FMD is responsible for all underground potable water systems, such as distribution lines and valves.

The SP shall prepare FEMA work orders if a leak or outage requires maintenance. See TE 1.1/CDRL A018 – FEMA Reporting for detailed requirements. See TE 3.6 for a list of potable water system work orders for fiscal year 2001.

C-5.3.1.7 Restart Chilled Water & Air Conditioning Systems

The SP shall check in FMS the operational status of the systems in Table C-5.3.1.7 between 05:30 and 06:30 each day of normal Depot operating hours ensuring these systems are online to support production areas. Normally, the SP can control these systems within FMS; however, electrical storms or other problems during the night can trip these units offline. Restart any offline systems manually IAW system operation manuals or as specified in a FEMA work order.

Table C-5.3.1.7 – SP-Operated Chilled Water and Air Conditioner Systems

Bldg. #	# of Units	Asset Number	Ton nage	System	Cooling Towers	Location
133	2	65923X20823	130	Screw Compressor	N/A	Fuel Control Area
		65923X20822				
133	1	65923X20100	150	Compressor, Reciprocal	N/A	ASE Test Stands
133	1	65923X20101	100	Compressor, Reciprocal		
133	3	65923X20802	250	Screw Compressor	2	RCA Area Accessories Test Area Plant Air Conditioning
		65923X20803	250			
		65923X20808	220			
133	1	65923X20807	330	Centrifugal Chiller		
137	1	65923X00695	100	Compressor, Reciprocal	N/A	Front Office
137	1	65923X20852	100	Compressor	N/A	
139	1	65923X21142	100	Compressor, Reciprocal	N/A	Blade and Bonding Shops
4032	1	65923X21136	120	Screw Compressor	1	Plant Air Conditioning
4224	2	65923X01688	250	Centrifugal Chiller	1	Plant Air Conditioning Production Processes
		65923X01691				
4225	2	65923x01690	383	Centrifugal Chiller	1	Plant Air Conditioning Production Processes
		65923x01689				

Once on 1st and 2nd shift, the SP shall take operational parameter readings of the systems in Table C-5.3.1.7 and record readings on Government-provided log

forms. See TE 1.1/CDRL A024 – Chilled Water Readings for detailed requirements. Per the CDRL, the SP shall collect all logs and deliver them to the DGR by the last workday of every other workweek.

The SP, using FEMA work orders, shall report failures to restore out-of-tolerance operational parameter readings of systems in Table C-5.3.1.7. See TE 1.1/CDRL A018 – FEMA Reporting for detailed requirements.

C-5.3.1.8 Perform Seasonal Startup & Shutdown of LP Gas Heating Systems

The SP shall perform seasonal startup and shutdown of LP gas heat systems within ten days after notification. The seasonal startup normally occurs in November and shutdown occurs in April.

See TE 3.7 for a list of gas heating systems and their locations.

C-5.3.1.9 Provide Notification of Service Reduction

In the event of any planned SP-caused service reduction (i.e., reduction or shutdown), the SP shall confirm the service reduction with the DGR at least 5 working days in advance of the reduction. The notification shall be in writing and include the following: reason, reduction or stoppage, facilities or areas affected, and the start date and time, and estimated date and time of service resumption. See TE 1.1/CDRL A025 – Service Reduction Notification for detailed requirements.

The SP shall schedule planned outages to ensure the least amount of disruption to affected parties. The DGR shall approve or reschedule the service reduction within four hours of receipt of the Service Reduction Notification.

C-5.3.2 Requirements

The SP shall perform the following:

- C-5.3.1.1 – Manage Compressed Air Systems
 - Operate (i.e., startup, monitor, and shutdown) the compressed air systems in Table C-5.3.1.1.
 - Take operational parameter readings of the systems in Table C-5.3.1.1 and record readings on Government-provided log forms.
 - Collect all logs and deliver to the DGR by the last workday of each week.
 - Report failures to restore out-of-tolerance operational parameter readings of systems in Table C-5.3.1.1 using FEMA work order.

- Maintain (i.e., service or provide preventive or reactive maintenance) the compressed air equipment throughout the NADEP including the systems in Table C-5.3.1.1 and TE 3.3 – Air Compressor Systems.
- C-5.3.1.2 – Operate Facilities Management System
 - Install FMS components for new equipment as well as direct replacements for existing systems.
 - When alarm conditions exist, the SP shall troubleshoot and reset all false alarms promptly.
 - If an alarm is genuine and represents a maintenance-related problem of the sensor or the equipment the sensor connects to, prepare a FEMA work order.
 - Manage the FMS system including troubleshooting genuine alarms and adjusting, repairing, or replacing defective FMS system components (sensors, controllers, multiplexors, etc) as required.
 - Manage the Metasys® application by installing government provided software updates and maintaining associated databases.
- C-5.3.1.3 – Maintain Emergency Generators
 - Maintain emergency generators (i.e., service or provide reactive maintenance)
 - Operate (startup, shutdown, and stow as required) emergency generators when requested on a FEMA work order or as the Government may direct without a FEMA work order under emergency conditions.
 - Prepare FEMA work orders for all maintenance-related problems when working on or operating an emergency generator.
- C-5.3.1.4 – Maintain Steam Systems
 - Maintain, without non-scheduled disruptions to production requirements, all aboveground steam lines and associated equipment from the point at which steam lines enter the steam system in each building.

- Assist the Government in an annual steam trap survey on approximately 892 traps throughout the Depot.
- Prepare FEMA work orders for all maintenance-related problems.
- C-5.3.1.5 – Respond to Sewage and Industrial Waste Spills and Stoppages
 - Provide a three-person working party to report to the spill or stoppage site and begin containment, repair, and cleanup under the direction of a DGR.
- C-5.3.1.6 – Maintain Potable Water Systems
 - Provide first response and fault isolation services for all aboveground potable water system leaks and outages within the Depot.
 - Prepare FEMA work orders if a leak or outage requires maintenance.
- C-5.3.1.7 – Restart Chilled Water and Air Conditioning Systems
 - Check in FMS the operational status of the systems in Table C-5.3.1.7 between 05:30 and 06:30 each day of normal Depot operating hours ensuring these systems are online to support production areas.
 - Restart any offline systems manually IAW systems operation manuals or as specified in a FEMA work order.
 - Once on 1st and 2nd shift, the SP shall take operational parameter readings of the systems in Table C-5.3.1.7 and record readings on Government-provided log forms.
 - Collect all logs and deliver to the DGR by the last workday of every other workweek.
 - Using FEMA work orders, report failures to restore out-of-tolerance operational parameter readings of systems in Table C-5.3.1.7.
- C-5.3.1.8 – Perform Seasonal Startup and Shutdown of LP Gas Heating Systems
 - Perform seasonal startup and shutdown of LP gas heat systems within ten days after notification.
- C-5.3.1.9 – Provide Notification of Service Reduction

- In the event of any planned SP-caused service reduction (i.e., reduction or shutdown), the SP shall confirm the service reduction with the DGR at least 5 working days in advance of the reduction.

C-5.3.3 Performance Requirements Summary

C-5.3 Utilities Operations and Maintenance Services			
Requirements	Performance Requirements Summary		
C-5.3.1.1 – Manage Compressed Air Systems	Quality	AQL	Lot
Operate (i.e., startup, monitor, and shutdown) the compressed air systems in Table C-5.3.1.1	Each compressor system operated IAW associated parameters per Table C-5.3.1.1	1%	Monthly
	Timeliness	AQL-MAX	
	System restored to required operational parameters within 30 minutes of taking an out-of-tolerance reading	1% – 1 hour	
	Quality	AQL	
	All compressed air systems operated without non-scheduled disruptions to production requirements	1%	
	Timeliness	AQL-MAX	
	Compressed air services restored within 30 minutes of an unplanned disruption	1% – 1 hour	
Take operational parameter readings of the systems in Table C-5.3.1.1 and record readings on Government-provided log forms	Quality	AQL	Monthly
	Readings and log entries complete and accurate	2%	
	Timeliness	AQL-MAX	
	Readings taken once per shift and log entries made as read	2% – Max same as standard	
Collect all logs and deliver to the DGR by the last workday of each week	Quality	AQL	Monthly
	All logs delivered to DGR	2%	
	Timeliness	AQL-MAX	
	All logs delivered to the DGR by the last workday of each week	2% – First day of next workweek	

C-5.3 Utilities Operations and Maintenance Services			
Requirements	Performance Requirements Summary		
Report failures to restore out-of-tolerance operational parameter readings of systems in Table C-5.3.1.1 using FEMA work order	Quality	AQL	Lot
	FEMA work orders prepared completely and accurately	5%	Monthly
	Timeliness	AQL-MAX	
	FEMA work order prepared within 10 minutes of failure to restore system	5% – 30 minutes or by end of shift whichever is sooner	
Maintain (i.e., service or provide preventive or reactive maintenance) the compressed air equipment throughout the NADEP including the systems in Table C-5.3.1.1 and TE 3.3 – Air Compressor Systems	Quality	AQL	Lot
	Work performed completely and accurately IAW technical and quality requirements of each work order	2%	Monthly
	Timeliness	AQL-MAX	
	Work accomplished IAW start and completion dates on work order	2% – Max is same as standard	
C-5.3.1.2 – Operate Facilities Management System	Quality	AQL	Lot
Install FMS components for new equipment as well as direct replacements for existing systems	Work performed completely and accurately IAW technical and quality requirements of each work order	2%	Monthly
	Timeliness	AQL-MAX	
	Work accomplished IAW start and completion dates on work order	2% – Max is same as standard	
When alarm conditions exist, the SP shall troubleshoot and reset all false alarms promptly	Quality	AQL	Lot
	Resolve all alarm conditions completely and accurately	5%	Monthly
	Timeliness	AQL-MAX	

C-5.3 Utilities Operations and Maintenance Services			
Requirements	Performance Requirements Summary		
	Each alarm resolved within 1 hour	5% - 4 hours	
Prepare a FEMA work order if an alarm is genuine and represents a maintenance-related problem of the sensor or the equipment the sensor connects to	Quality	AQL	Lot
	FEMA work orders prepared completely and accurately	5%	Monthly
	Timeliness	AQL-MAX	
	FEMA work orders prepared within 10 minutes of determining an alarm is genuine	5% - 30 minutes or by end of shift whichever is sooner	
Manage the FMS system including troubleshooting genuine alarms and adjusting, repairing, or replacing defective FMS system components (sensors, controllers, multiplexors, etc) as required	Quality	AQL	Lot
	Work performed completely and accurately IAW technical and quality requirements of each work order	2%	Monthly
	Timeliness	AQL-MAX	
	Work accomplished IAW start and completion dates on work order	2% - 4 hours	
Manage the MetaSys® application by installing government provided software updates and maintaining associated databases	Quality	AQL	Lot
	Work performed completely and accurately IAW technical and quality requirements of each work order	2%	Monthly
	Timeliness	AQL-MAX	
	Work accomplished IAW start and completion dates on work order	2% – Max is same as standard	
C-5.3.1.3 – Maintain Emergency Generators	Quality	AQL	Lot
Maintain emergency generators (i.e., service or provide reactive maintenance)	Work performed completely and accurately IAW technical and quality requirements of each work order	2%	Monthly

C-5.3 Utilities Operations and Maintenance Services			
Requirements	Performance Requirements Summary		
	Timeliness	AQL-MAX	
	Work accomplished IAW start and completion dates on work order	2% – Max is same as standard	
Operate (startup, shutdown, and stow as required) emergency generators when requested on a FEMA work order or as the Government may direct without a FEMA work order under emergency conditions	Quality	AQL	Lot
	Work performed completely and accurately IAW technical and quality requirements of each work order	2%	Monthly
	Timeliness	AQL-MAX	
	Work accomplished IAW start and completion dates on work order	2% – Max is same as standard	
Prepare FEMA work orders for all maintenance-related problems when working on or operating an emergency generator	Quality	AQL	Lot
	FEMA work orders prepared completely and accurately	5%	Monthly
	Timeliness	AQL-MAX	
	FEMA work orders prepared within 30 minutes of detecting a maintenance-related problem	5% – 60 minutes or by end of shift whichever is sooner	
C-5.3.1.4 – Maintain Steam Systems	Quality	AQL	Lot
Maintain, without non-scheduled disruptions to production requirements, all aboveground steam lines and associated equipment from the point at which steam lines enter the steam system in each building	Work completed completely and accurately IAW requirements of each work order	2%	Monthly
	Timeliness	AQL-MAX	
	Work accomplished IAW start and completion dates on work order	2%	

C-5.3 Utilities Operations and Maintenance Services			
Requirements	Performance Requirements Summary		
Assist the Government in an annual steam trap survey on approximately 892 traps throughout the Depot	Quality	AQL	Lot
	Employee provided is experienced and knowledgeable of aboveground steam systems	1%	Monthly
	Timeliness	AQL-MAX	
	SP-provided employee is available full time at beginning of each required shift on survey days	0 – within 10 minutes of start of each shift	
Prepare FEMA work orders for all maintenance-related problems	Quality	AQL	Lot
	FEMA work orders prepared completely and accurately	5%	Monthly
	Timeliness	AQL-MAX	
	FEMA work orders prepared within 30 minutes of detecting a maintenance-related problem	5% – 60 minutes or by end of shift whichever is sooner	
C-5.3.1.5 – Respond to Sewage and Industrial Waste Spills and Stoppages	Quality	AQL	Lot
Provide a three-person working party to report to the spill or stoppage site and begin containment, repair, and cleanup under the direction of a DGR	Three-person working party at the appropriate site and able to provide assistance	2%	Monthly
	Timeliness	AQL-MAX	
	Assistance provided within 10 minutes	2% – 20 minutes	
C-5.3.1.6 – Maintain Potable Water Systems	Quality	AQL	Lot
Provide first response and fault isolation services for all aboveground potable water system leaks and outages within the Depot	Work performed completely and accurately IAW technical and quality requirements of each work order	2%	Monthly

C-5.3 Utilities Operations and Maintenance Services			
Requirements	Performance Requirements Summary		
	Timeliness	AQL-MAX	
	Work accomplished IAW start and completion dates on work order	2%	
Prepare FEMA work orders if a leak or outage requires maintenance	Quality	AQL	Lot
	FEMA work orders prepared completely and accurately	5%	Monthly
	Timeliness	AQL-MAX	
	FEMA work orders prepared within 30 minutes of detecting a maintenance-related problem	5% – 60 minutes or by end of shift whichever is sooner	
C-5.3.1.7 – Restart Chilled Water and Air Conditioning Systems	Quality	AQL	Lot
Check in FMS the operational status of the systems in Table C-5.3.1.7 between 05:30 and 06:30 each day of normal Depot operating hours ensuring these systems are online to support production areas	All systems checked between 05:30 and 06:30 and off-line systems restarted	5%	Monthly
	Timeliness	AQL-MAX	
	All systems on-line no later than 06:30	5% – Max is same as standard	
Restart any offline systems manually IAW system operation manuals or as specified in a FEMA work order	Quality	AQL	Lot
	Work performed completely and accurately IAW technical and quality requirements of operation manuals or work order	2%	Monthly
	Timeliness	AQL-MAX	
	Work completed completely and accurately IAW requirements of operation manuals or work orders	2%	
	Quality	AQL	Lot

C-5.3 Utilities Operations and Maintenance Services			
Requirements	Performance Requirements Summary		
Once on 1 st and 2 nd shift, the SP shall take operational parameter readings of the systems in Table C-5.3.1.7 and record readings on the Government-provided log forms	Log entries complete and accurate	2%	Monthly
	Timeliness	AQL-MAX	
	Log entries made once per day on the 1 st shift	2% – Max same as standard	
Collect all logs and deliver to the DGR by the last workday of every other workweek	Quality	AQL	Lot
	All logs collected and delivered to DGR	2%	Monthly
	Timeliness	AQL-MAX	
	All logs delivered to the DGR by the last workday of every other workweek	2% – First day of next workweek	
Using FEMA work orders, report failures to restore out-of-tolerance operational parameter readings of systems in Table C-5.3.1.7	Quality	AQL	Lot
	FEMA work orders prepared completely and accurately	5%	Monthly
	Timeliness	AQL-MAX	
	FEMA work order prepared within 10 minutes of failure to restore system	5% – 30 minutes or by end of shift whichever is sooner	
C-5.3.1.8 – Perform Seasonal Startup and Shutdown of LP Gas Heating Systems	Quality	AQL	Lot
Perform seasonal startup and shutdown of LP gas heat systems within ten days after notification	Work performed completely and accurately IAW technical and quality requirements of each work order	5%	Monthly

C-5.3 Utilities Operations and Maintenance Services			
Requirements	Performance Requirements Summary		
	Timeliness	AQL-MAX	
	Work accomplished IAW start and completion dates on work order	5% – Max is same as standard	
C-5.3.1.9 – Provide Notification of Service Reduction	Quality	AQL	Lot
In the event of any planned SP-caused service reduction (i.e., reduction or shutdown), the SP shall confirm the service reduction with the DGR at least 5 working days in advance of the reduction	Notification prepared completely and accurately and confirmed with the DGR	1%	Monthly
	Timeliness	AQL-MAX	
	Notification provided 5 working days in advance	1% – 2 days	

C-5.4 Manufacturing & Installation Services

C-5.4.1 Scope of Work

Manufacturing includes fabrication, assembly, and construction of a wide range of equipment and fixtures used by production personnel in support of Depot-level repairs of aircraft, engines, and components. Examples include fixtures, jigs, work stands, carts, dollies, shipping crates, tooling, and equipment components. Typical manufacturing operations include welding, sheetmetal fabrication, woodworking, thermoplastic joining, and painting. Supporting Plant Maintenance operations, the manufacturing of equipment, devices, components, furniture, plaques, picture frames, signs, and various other products improves the quality of work life as well as maintaining a safe and healthy environment.

Installation services cover existing equipment, upgrades, retrofits, modifications, and relocations and new equipment installations. Equipment types include production equipment, air conditioning systems, and ventilation systems.

The customer initiates the manufacturing process by submitting form *CP 4235/2, Service, Equipment, or Facilities Request* to the appropriate Government supervisor and division director for approval. The customer will provide a description of the request, estimated cost, date required, and funding source then forwards the form to the Industrial Plant Maintenance Division Director (Code 6.3.650) for approval and assignment of planning activities including engineering, material, and planning and estimating requirements. Industrial Plant Maintenance Division Director routes the form to the Facility Project Planning Branch (Code 6.3.654) for assignment of a task number in the Project Coordination mode of FEMA. The Production Control Branch creates a FEMA work order and routes the order to the SP along with the necessary work instructions. The Government will furnish drawings, prints, and sketches for all required processes. The Government will also provide materials from an appropriate store.

C-5.4.1.1 Perform Woodworking Services

The SP shall fabricate, assemble, build, and install custom wooden and composite products such as cabinets, benches, worktables, furniture, dollies, and production support equipment. The SP shall cut, shape, drill, and install related glass, plastic, rubber and metal components as required in the manufacturing process. The SP shall glue, treat, sand, and otherwise prepare components IAW blueprints, sketches, and technical directives.

See TE 3.8 for a list of woodworking work orders for fiscal year 2001.

C-5.4.1.2 Perform Painting Services

The SP shall apply corrosion preventive, protective, and decorative finishes to manufactured wood, metal, and plastic products as specified in work orders. The SP shall sand, fill, treat, and otherwise perform all preparatory actions as specified

by the coating manufacturer and work orders. The SP shall move, cover, or otherwise protect all surfaces, furnishings, fixtures, equipment, floor coverings, and other items not painted. Upon completion, the SP shall return all protected items to their original condition.

See TE 3.9 for a list of painting work orders for fiscal year 2001.

C-5.4.1.3 Perform Sheetmetal Fabrication Services

The SP shall manufacture, install, modify, and fabricate sheetmetal products including safety shields, guards, control panels for production test stands and parts cleaning baskets. The types of metals used include galvanized steel, aluminum, copper, stainless steel, brass, lead, and molybdenum sheetmetal. Various sizes and lengths of angle rod (round and square), flat bar and channel are typically used. Related hardware including hinges, screws, rivets and various other fasteners are used.

See TE 3.10 for a list of sheetmetal work orders for fiscal year 2001.

The SP shall also manufacture embossed, metal aircraft parts identification tags (burr tags).

See TE 3.11 for a list of embossed, metal aircraft parts identification tag manufacturing work orders for fiscal year 2001.

C-5.4.1.4 Perform Plastic Fabrication Services

The SP shall manufacture chemical-resistant tanks, ductwork, ventilation systems, piping, filtering mechanisms, and other production equipment from thermoplastic materials. The SP shall cut, drill, shape, weld, and assemble products using the technical publication *Sheetmetal and Air Conditioning Contractors National Association Thermoplastic Duct (PVC) Construction Manual*.

Under this PWS, the SP shall provide plastic services under a FEMA work order.

C-5.4.1.5 Provide Metal Fabrication Services

The SP shall fabricate and assemble metal plant equipment and structures. The SP shall apply repair processes above and belowground in horizontal, vertical, and overhead positions and in confined entry spaces.

When performing hot work in areas other than those designated for such work in the Plant Maintenance Building (Building 83), the SP shall obtain a hot work permit before commencement of work. The MCAS Fire Department will issue hot work permits to the SP IAW *NAVAVNDEPOTINST 11320.1, Fire Protection Plan*.

SP employees who weld in performing work under this PWS shall become qualified, maintain qualification, and have certification per:

- *American Welding Society Structural Welding Code Steel, D1.1*
- *American Welding Society Specification for Fusion Welding and Aerospace Applications, D17.1*
- *NAVAIR 01-1A-34, Aeronautical and Support Equipment Welding*
- *CP 09-3-R-5948_, Inspection and Testing Local Process Specification*
- For pressure systems (e.g., piping, pressure vessels, tanks, and heat exchangers) *American Society of Mechanical Engineers Boiler and Pressure Vessel Sec. IX, Qualification Standards for Welding and Brazing Procedures, Welders, Brazers, and Welding Brazing Operators.*

SP personnel who make metal repairs in performing work under this PWS shall:

- Fabricate weight-handling equipment IAW *NAVAIRDEPOTINST 4750.4_, Aircraft Sling and Lifting Component Devices* and ensure all welding passes nondestructive inspection and meets all specifications.
- Fabricate overhead hoists IAW Naval Facilities (*NAVFAC*) *P-307, Management of Weight Handling Equipment (MHE).*
- Fabricate aircraft run-up restraint fittings and tie downs IAW *NAVAIR 17-1-537, Aircraft Restraining Devices and Related Components.*
- Weld structural components and pressure vessels IAW *Subpart Q of Code of Federal Regulations, 29 CFR 1910, Occupational Safety, and Health Administration (OSHA) General Industry Standards for Structural And Pressure Vessel Welding.*
- Follow weld procedure specifications as the Government may provide with FEMA work orders.

See TE 3.12 for a list of metal fabrication work orders for fiscal year 2001.

C-5.4.1.6 Perform Production Equipment Installation Services

The SP shall install, upgrade, modernize, relocate, retrofit, and modify production plant equipment. The SP shall perform rigging, mounting, industrial controls and mechanical services and connections as well as steam, air, water, and chemical piping. The Government will provide engineering support and crane services to assist installations as required.

See TE 3.13 for a list of production equipment installation work orders for fiscal year 2001.

C-5.4.1.7 Perform Signage Services

The SP shall fabricate, maintain, replace, and install signs throughout the Depot (e.g., street, unit, directional, regulatory, individual group reserved parking, safety, Depot perimeter boundary, fire prevention, physical and classified activity, control, off limit, restricted area, special event, and any other signs requested by authorized customers aboard the Depot). The SP shall construct signs from a variety of materials, as directed by a FEMA work order, to include wood, metal, poster board, and/or acrylic. The SP shall provide for all layout and design as well as create stencils, templates, and patterns to reproduce designs and shapes. The SP shall letter, emboss, and engrave on signs and fabricated products including freehand script and ornamentation.

See TE 3.14 for a list of sign work orders for fiscal year 2001.

C-5.4.1.8 Provide Limited Design Services

The Government will provide design services to the SP. For example, Depot engineers may require assistance from SP artisans designing ductwork for ventilation systems, retrofitting production machinery, developing a tooling prototype, etc.

Under this PWS, the SP shall provide limited services under a FEMA work order.

C-5.4.2 Requirements

The SP shall perform the following:

- C-5.4.1.1 – Perform Woodworking Services
 - Fabricate, assemble, build, and install custom wooden and composite products such as cabinets, benches, worktables, furniture, dollies, and production support equipment.
- C-5.4.1.2 – Perform Painting Services
 - Apply corrosion preventive, protective, and decorative finishes to manufactured wood, metal, and plastic products as specified in work orders.
- C-5.4.1.3 – Perform Sheetmetal Fabrication Services
 - Manufacture, install, modify, and fabricate sheetmetal products including safety shields, guards, control panels for production test stands, and parts cleaning baskets.
 - Manufacture embossed, metal aircraft parts identification tags (burr tags).
- C-5.4.1.4 – Perform Plastic Fabrication Services

- Manufacture chemical-resistant tanks, ductwork, ventilation systems, piping, filtering mechanisms, and other production equipment from thermoplastic materials.
- C-5.4.1.5 – Provide Metal Fabrication Services
 - Fabricate and assemble metal plant equipment and structures.
- C-5.4.1.6 – Perform Production Equipment Installation Services
 - Install, upgrade, modernize, relocate, retrofit, and modify production plant equipment.
- C-5.4.1.7 – Perform Signage Services
 - Fabricate, maintain, replace, and install signs throughout the Depot (e.g., street, unit, directional, regulatory, individual group reserved parking, safety, Depot perimeter boundary, fire prevention, physical and classified activity, control, off limit, restricted area, special event, and any other signs requested by authorized customers aboard the Depot).
- C-5.4.1.8 – Provide Limited Design Services
 - Depot engineers may require assistance from SP artisans designing ductwork for ventilation systems, retrofitting production machinery, developing a tooling prototype, etc.

C-5.4.3 Performance Requirements Summary

C-5.4 Manufacturing and Installation Services			
Requirements	Performance Requirements Summary		
C-5.4.1.1 – Perform Woodworking Services	Quality	AQL	Lot
Fabricate, assemble, build, and install custom wooden and composite products such as cabinets, benches, worktables, furniture, dollies, and production support equipment	Work performed completely and accurately IAW technical and quality requirements of each work order	5%	Monthly
	Timeliness	AQL-MAX	
	Work accomplished IAW start and completion dates on the work order	5% – Max is same as standard	
C-5.4.1.2 – Perform Painting Services	Quality	AQL	Lot
Apply corrosion preventive, protective, and decorative finishes to manufactured wood, metal, and plastic products as specified in work orders	Work performed completely and accurately IAW technical and quality requirements of each work order	5%	Monthly
	Timeliness	AQL-MAX	
	Work accomplished IAW start and completion dates on the work order	5% – Max is same as standard	
C-5.4.1.3 – Perform Sheetmetal Fabrication Services	Quality	AQL	Lot
Manufacture, install, modify, and fabricate sheetmetal products including safety shields, guards, control panels for production test stands, and parts cleaning baskets	Work performed completely and accurately IAW technical and quality requirements of each work order	5%	Monthly
	Timeliness	AQL-MAX	
	Work accomplished IAW start and completion dates on the work order	5% – Max is same as standard	
Manufacture embossed, metal aircraft parts identification tags (burr tags)	Quality	AQL	Lot
	Work performed completely and accurately IAW technical and quality requirements of each work order	5%	Monthly

C-5.4 Manufacturing and Installation Services			
Requirements	Performance Requirements Summary		
	Timeliness	AQL-MAX	
	Work accomplished IAW start and completion dates on the work order	5%	
C-5.4.1.4 – Perform Plastic Fabrication Services	Quality	AQL	Lot
Manufacture chemical-resistant tanks, ductwork, ventilation systems, piping, filtering mechanisms, and other production equipment from thermoplastic materials	Work performed completely and accurately IAW technical and quality requirements of each work order	5%	Monthly
	Timeliness	AQL-MAX	
	Work accomplished IAW start and completion dates on the work order	5% – Max is same as standard	
C-5.4.1.5 – Provide Metal Fabrication Services	Quality	AQL	Lot
Fabricate and assemble metal plant equipment and structures	Work performed completely and accurately IAW technical and quality requirements of each work order	5%	Monthly
	Timeliness	AQL-MAX	
	Work accomplished IAW start and completion dates on the work order	5% – Max is same as standard	
C-5.4.1.6 – Perform Production Equipment Installation Services	Quality	AQL	Lot
Install, upgrade, modernize, relocate, retrofit, and modify production plant equipment	Work performed completely and accurately IAW technical and quality requirements of each work order	5%	Monthly
	Timeliness	AQL-MAX	
	Work accomplished IAW start and completion dates on the work order	5% – Max is same as standard	
C-5.4.1.7 – Perform Signage Services	Quality	AQL	Lot

C-5.4 Manufacturing and Installation Services			
Requirements	Performance Requirements Summary		
Fabricate, maintain, replace, and install signs throughout the Depot (e.g., street, unit, directional, regulatory, individual group reserved parking, safety, Depot perimeter boundary, fire prevention, physical and classified activity, control, off limit, restricted area, special event, and any other signs requested by authorized customers aboard the Depot)	Work performed completely and accurately IAW technical and quality requirements of each work order	5%	Monthly
	Timeliness	AQL-MAX	
	Work accomplished IAW start and completion dates on the work order	5% – Max is same as standard	
C-5.4.1.8 – Provide Design Engineering Services	Quality	AQL	Lot
Depot engineers may require assistance from SP artisans designing ductwork for ventilation systems, retrofitting production machinery, developing a tooling prototype, etc.	Work performed completely and accurately IAW technical and quality requirements of each work order	5%	Monthly
	Timeliness	AQL-MAX	
	Work accomplished IAW start and completion dates on the work order	5% – Max is same as standard	

C-5.5 Inspection, Testing & Certification Services

C-5.5.1 Scope of Work

Inspection, testing, and certification services include the overall application of technical specifications and directives governing a wide range of weight handling and industrial process equipment. This includes careful documentation of all inspection and testing actions and ensures all files and records are appropriately maintained and readily available for associated audits.

C-5.5.1.1 Inspect & Test Overhead Hoists

For overhead hoists the Government will certify hoist based on SP condition inspections, maintenance inspections, and load testing. Specifically, the SP shall perform:

- Annual maintenance inspections
- Annual condition inspections
- Annual load testing of all:
 - Overhead hoists ranging from 500 lb. to 2,000 lb.
 - Monorail hoists ranging from 250 lb. to 12,000 lb.
 - Overhead traveling bridges ranging from 500 lb. to 10,000 lb.
 - Jib hoists ranging from 250 lb. to 6,000 lb.
 - Mobile cranes ranging from 7.5 tons to 35 tons.

All SP inspections, testing, maintenance, reporting, and record keeping activities, as well as personnel qualification requirements shall be in full compliance with *NAVFAC P-307, Management of Weight Handling Equipment* and *NAVAVNDEPOTINST 11450.1 Weight Handling Equipment Management Program*. Each hoist will undergo test and certification once per year. Test workload for hoists is the product of the inventory and the requirement to perform the procedures in *NAVFAC P-307, Management of Weight Handling Equipment*, and *NAVAVNDEPOTINST 11450.1, Weight Handling Equipment Management Program*, each year.

The SP shall manage the WHE program including generating and processing inspection and testing paperwork as well as maintaining records of annual hoist certifications as required by *NAVFAC P-307, Management of Weight Handling Equipment* and *NAVAVNDEPOTINST 11450.1 Weight Handling Equipment Management Program*.

The SP shall perform condition inspection and load testing as required after reactive maintenance repair of any load bearing, load controlling, or operational safety devices.

See TE 3.15 for hoist inventory, location, and asset number. See TE 1.1/CDRL A018 - FEMA Reporting for detailed requirements. Workload for hoist maintenance is included in Section C-5.6 Reactive Maintenance of this PWS.

Prepare a FEMA work order if the inspection or testing results in a maintenance-related problem.

C-5.5.1.2 Inspect & Test Aircraft Restraining Devices

The SP shall perform inspections and proofload testing of aircraft restraining devices IAW *NAVAIR 17-1-537, Aircraft Restraining Devices and Related Components*. The SP shall ensure that employees assigned to meet this requirement have the requisite knowledge, skills, and experience to proof test all configurations addressed in *NAVAIR 17-1-537, Aircraft Restraining Devices and Related Components*. In addition, these skills shall include the ability to proofload non-standard designs and restraints that do not use a test point from which to pull.

See TE 3.16 for aircraft restraining devices and locations. Load test requirements for restraining devices are in *NAVAIR 17-1-537, Aircraft Restraining Devices and Related Components*. Load test workload for restraining devices is the product of the inventory and the requirement to perform the procedures in *NAVAIR 17-1-537, Aircraft Restraining Devices and Related Components* each year.

The SP shall travel, when required, to destinations outside the Depot or CONUS. See C-1.5.15 for travel requirements.

Prepare a FEMA work order if the inspection and proofload testing performed at MCAS CP results in a maintenance-related problem. See TE 1.1/ CDRL A018 – FEMA Reporting for detailed requirements. For locations other than MCAS CP, document the problem and submit to the host activity if the inspection and proofload testing results in a maintenance-related problem.

C-5.5.1.3 Perform Load Tests

The SP shall proofload test and certify aircraft jacks ranging in capacity from 10 to 30 tons. The technical publication identifies requirements for load tests in *NAVAIR 19-70-521, Aircraft Jacks, Various*. Proofload test and certification workload for aircraft jacks is the product of the inventory and the requirement to perform the procedures in *NAVAIR-19-70-521* each year.

The preventive maintenance specification lists the frequencies of load tests as well as all inspections, lubrication, functional checks and non-destructive testing. The SP shall be responsible for meeting all the requirements outlined in technical publication *NAVAIR 19-70-521, Aircraft Jacks, Various*.

See TE 3.17 for an inventory of ground support jacks, locations, and asset numbers.

The SP shall prepare a FEMA work order if the load test results in a maintenance-related problem. See TE 1.1/CDRL A018 – FEMA Reporting for detailed requirements.

C-5.5.2 Requirements

The SP shall perform the following:

- C-5.5.1.1 – Inspect and Test Overhead Hoists
 - Annual maintenance inspections
 - Overhead hoists ranging from 500 lb. to 2,000 lb.
 - Monorail hoists ranging from 250 lb. to 12,000 lb.
 - Overhead traveling bridges ranging from 500 lb. to 10,000 lb.
 - Jib hoists ranging from 250 lb. to 6,000 lb.
 - Mobile cranes ranging from 7.5 tons to 35 tons.
 - Annual condition inspections
 - Overhead hoists ranging from 500 lb. to 2,000 lb.
 - Monorail hoists ranging from 250 lb. to 12,000 lb.
 - Overhead traveling bridges ranging from 500 lb. to 10,000 lb.
 - Jib hoists ranging from 250 lb. to 6,000 lb.
 - Mobile cranes ranging from 7.5 tons to 35 tons.
 - Annual load testing of all:
 - Overhead hoists ranging from 500 lb. to 2,000 lb.
 - Monorail hoists ranging from 250 lb. to 12,000 lb.
 - Overhead traveling bridges ranging from 500 lb. to 10,000 lb.
 - Jib hoists ranging from 250 lb. to 6,000 lb.

- Mobile cranes ranging from 7.5 tons to 35 tons.
- Manage the WHE program including generating and processing inspection and testing paperwork as well as maintaining records of annual hoist certifications as required by *NAVFAC P-307, Management of Weight Handling Equipment* and *NAVAVNDEPOTINST 11450.1 Weight Handling Equipment Management Program*.
- Perform condition inspection and load testing as required after reactive maintenance repair of any load bearing, load controlling, or operational safety devices.
- Prepare a FEMA work order if the inspection or certification results in a maintenance-related problem.
- C-5.5.1.2 – Inspect and Test Aircraft Restraining Devices
 - Perform inspections and proofload testing of aircraft restraining devices IAW *NAVAIR 17-1-537, Aircraft Restraining Devices and Related Components*.
 - Prepare a FEMA work order if the inspection and proofload testing performed at MCAS CP results in a maintenance-related problem. For locations other than MCAS CP, document the problem and submit to the host activity if the inspection and proofload testing results in a maintenance-related problem.
- C-5.5.1.3 – Perform Load Tests
 - Proofload test and certify aircraft jacks ranging in capacity from 10 to 30 tons.
 - Prepare a FEMA work order if the load test results in a maintenance-related problem.

C-5.5.3 Performance Requirements Summary

C-5.5 Inspection, Testing, and Certification Services			
Requirements	Performance Requirements Summary		
C-5.5.1.1 – Inspect and Test Overhead Hoists	Quality	AQL	Lot
Perform annual maintenance inspections of all: <ul style="list-style-type: none"> • Overhead hoists ranging from 500 lbs. to 2,000 lbs. • Monorail hoists ranging from 250 lbs. to 12,000 lbs. • Overhead traveling bridges ranging from 500 lbs. to 10,000 lbs. • Jib hoists ranging from 250 lbs. to 6,000 lbs. • Mobile cranes ranging from 7.5 tons to 35 tons 	Work performed completely and accurately IAW technical and quality requirements of each work order	5%	Monthly
	Timeliness	AQL-MAX	
	Work accomplished IAW start and completion dates on the work order	5% – Max is same as standard	
Perform annual condition inspections of all: <ul style="list-style-type: none"> • Overhead hoists ranging from 500 lbs. to 2,000 lbs. • Monorail hoists ranging from 250 lbs. to 12,000 lbs. • Overhead traveling bridges ranging from 500 lbs. to 10,000 lbs. • Jib hoists ranging from 250 lbs. to 6,000 lbs. • Mobile cranes ranging from 7.5 tons to 35 tons 	Quality	AQL	Lot
	Work performed completely and accurately IAW technical and quality requirements of each work order	5%	Monthly
	Timeliness	AQL-MAX	
	Work accomplished IAW start and completion dates on the work order	5% – Max is same as standard	

C-5.5 Inspection, Testing, and Certification Services			
Requirements	Performance Requirements Summary		
Perform annual load testing of all: <ul style="list-style-type: none"> • Overhead hoists ranging from 500 lbs. to 2,000 lbs. • Monorail hoists ranging from 250 lbs. to 12,000 lbs. • Overhead traveling bridges ranging from 500 lbs. to 10,000 lbs. • Jib hoists ranging from 250 lbs. to 6,000 lbs. • Mobile cranes ranging from 7.5 tons to 35 tons 	Quality	AQL	Lot
	Work performed completely and accurately IAW technical and quality requirements of each work order	5%	Monthly
	Timeliness	AQL-MAX	
	Work accomplished IAW start and completion dates on the work order	5% – Max is same as standard	
Manage the WHE program including generating and processing inspection and testing paperwork as well as maintaining records of annual hoist certifications as required by NAVFAC P-307, <i>Management of Weight Handling Equipment</i> and NAVAVNDEPOTINST 11450.1 <i>Weight Handling Equipment Management Program</i>	Quality	AQL	Lot
	Work performed completely and accurately IAW technical and quality requirements of each work order IAW NAVFAC P-307, <i>Management of Weight Handling Equipment</i> and NAVAVNDEPOTINST 11450.1 <i>Weight Handling Equipment Management Program</i>	2%	Monthly
	Timeliness	AQL-MAX	
	Work accomplished IAW start and completion dates on the work order	0% Max is same as standard	
Perform condition inspection and load testing as required after reactive maintenance repair of any load bearing, load controlling, or operational safety devices	Quality	AQL	Lot
	Work performed completely and accurately IAW technical and quality requirements of each work order	5%	Monthly
	Timeliness	AQL-MAX	
	Work accomplished IAW start and completion dates on the work order	5% – Max is same as standard	

C-5.5 Inspection, Testing, and Certification Services			
Requirements	Performance Requirements Summary		
Prepare a FEMA work order if the inspection or certification results in a maintenance-related problem	Quality	AQL	Lot
	FEMA work orders prepared completely and accurately	5%	Monthly
	Timeliness	AQL-MAX	
	FEMA work orders prepared within 1 hour of determining a maintenance-related problem	5% – 2 hours or by end of shift whichever is sooner	
C-5.5.1.2 – Inspect and Test Aircraft Restraining Devices	Quality	AQL	Lot
Perform inspections and proofload testing of aircraft restraining devices IAW NAVAIR 17-1-537, <i>Aircraft Restraining Devices and Related Components</i>	Inspected and tested IAW NAVAIR 17-1-537. At the Depot, work performed completely and accurately IAW technical and quality requirements of each FEMA work order. At other locations performed completely and accurately IAW local requirements. Ensure employees assigned to meet requirements have the requisite knowledge, skills, and experience to proof test all configurations addressed in NAVAIR 17-1-537, <i>Aircraft Restraining Devices and Related Components</i>	5%	Monthly
	Timeliness	AQL-MAX	
	As required at locations other than NADEP CP otherwise work accomplished IAW start and completion dates on the work order	5% – Max is same as standard	
Prepare a FEMA work order if the inspection and proofload testing performed at MCAS CP results in a maintenance-related problem. For locations other than MCAS CP, document the problem and submit to the host activity if the inspection and proofload testing results in a maintenance-related problem.	Quality	AQL	Lot
	FEMA work orders prepared completely and accurately	5%	Monthly

C-5.5 Inspection, Testing, and Certification Services			
Requirements	Performance Requirements Summary		
	Timeliness	AQL-MAX	
	FEMA work orders prepared within 1 hour of determining a maintenance-related problem	5% – 2 hours or by end of shift whichever is sooner	
C-5.5.1.3 – Perform Load Tests	Quality	AQL	Lot
Proofload test and certify aircraft jacks ranging in capacity from 10 to 30 tons	Work performed completely and accurately IAW technical and quality requirements of each work order. Responsible for meeting all the requirements in <i>NAVAIR 19-70-521, Aircraft Jacks, Various</i>	5%	Monthly
	Timeliness	AQL-MAX	
	Work accomplished IAW start and completion dates on the work order	5%	
Prepare a FEMA work order if the load test results in a maintenance-related problem	Quality	AQL	Lot
	FEMA work orders prepared completely and accurately	5%	Monthly
	Timeliness	AQL-MAX	
	FEMA work orders prepared within 1 hour of determining a maintenance-related problem	5% – 2 hours or by end of shift whichever is sooner	

C-5.6 Reactive Maintenance Services

C-5.6.1 Scope of Work

TE 3.18 – FEMA Plant Equipment is a list of the remaining plant equipment, not listed elsewhere in the PWS. The SP shall be responsible for performing reactive (i.e., corrective) maintenance on this equipment as well as other non-plant account equipment such as doors and office furniture. This section of the PWS focuses on reactive maintenance services provided by the SP such as:

- Industrial machines (e.g., industrial controls, machine tools, and overhead hoists)
- Ground support equipment
- Welding
- Pipefitting
- Sheetmetal Repairs
- Heating, ventilation, air conditioning and refrigeration repairs
- Environmentally controlled facilities
- Industrial compound freezers
- Carpentry and woodworking
- Painting.

For the SP, reactive maintenance is a two-step process. In the first step, the Government issues a work order to the SP to perform fault isolation of a problem with an asset. If practicable, the SP should restore an asset to meet customer needs by making any repair only to the fault isolation. If the SP cannot readily achieve a repair, the SP shall recommend appropriate corrective maintenance action for the asset. The Government will then use the corrective maintenance information to organize appropriate resources to correct the fault.

In the second step, the Government reissues the work order to the SP to correct the fault. If accomplishment of this second step does not correct the fault, the SP shall perform additional fault isolation and make additional recommendations for corrective action.

When performing fault isolation, the SP shall provide the Government a sufficiently detailed description of the problem and what is required to solve the problem on the FEMA work order. The SP shall complete form *CP 2435/26, Component/Parts Requisition* to enable the Government to acquire all necessary

parts and consumables required to effect repairs. See TE 1.1/CDRL A026 – Component Parts Requisition for detailed requirements.

The Government will provide a quarterly update of new, upgraded, or relocated equipment the SP will be responsible for maintaining or repairing. This update comes in the form of an Equipment Installation Plan.

See TE 3.19 for a sample equipment installation plan.

Section C-5.1.1.1 of this PWS addresses the additional information regarding the quarterly meeting. The government will provide on-the-job operations and maintenance training for new or upgraded equipment.

C-5.6.1.1 *Repair Industrial Controls*

C-5.6.1.1.1 Provide Industrial Controls Maintenance

The SP shall repair complex industrial control systems. Examples of equipment and systems include multi-axis numerically controlled machines, computerized engine test cells, automated storage and retrieval equipment, automated test systems, component test stands, lathes, milling machines, grinders, etc. The SP shall be responsible for maintaining all industrial processes and shop equipment located within the Depot complex. These systems include both analog and digital technologies.

See TE 3.18 for a list of FEMA Plant Equipment, asset numbers and location.

The SP shall be proficient in the use of a wide range of software packages used to troubleshoot, monitor, and reload computer controlled industrial equipment and systems. Examples of software packages utilized follows:

- Square D
- Allen-Bradley
- Azonix
- MetaSys
- Honeywell
- Acromag
- Symax
- General Electric
- Johnson Controls
- Air Miser

- Triangle Automated Controls
- Taylor Company
- Omron
- Seimens
- Mitsubishi
- Kloeckner Moeller
- Modicon
- Pathfinder
- Geotronic
- Trimble Navigation
- Cimplicity
- Versamax

The SP shall be proficient in the use of a variety of interface devices such as laptop computers, hand-held pendants and programmers, and input/output devices that use various technologies.

See TE 3.20 for a list of industrial controls work orders for fiscal year 2001.

C-5.6.1.1.2 ***Repair Machine Tools***

The SP shall repair complex machine tools. Examples of equipment and systems include multi-axis numerically controlled machines, computerized engine test cells, automated storage and retrieval equipment, automated test systems, component test stands, lathes, milling machines, grinders, etc. The SP shall be responsible for maintaining all industrial process and shop equipment located within the Depot complex. For the most part, this is precision machinery.

See TE 3.18 for a list of FEMA Plant Equipment, asset numbers, and location. TE 3.21 is a list of machine tool work orders for fiscal year 2001.

C-5.6.1.1.3 ***Repair Overhead Hoists***

The SP shall repair weight-handling equipment including overhead hoists, jib cranes, and mobile cranes, as described in Section C-5.5.1.1. All repairs shall be performed IAW NAVFAC P-307, *Management of Weight Handling Equipment* and NAVAVNDEPOTINST 11450.1, *Weight Handling Equipment Management Program*.

See TE 3.22 for a list of overhead hoist work orders for fiscal year 2001.

C-5.6.1.2 Repair Ground Support Equipment

The SP shall provide mechanical and electrical repairs for all types of GSE. In addition, the SP shall repair other components of GSE such as, air conditioners, tires and wheels, hydraulic systems, gas turbines, and high-pressure gas systems.

Technical information to support GSE repairs is located in the satellite Building 154. The Government will maintain this library.

Quality assurance procedures vary for GSE. For GSE, the lead mechanic performing the repairs signs off on the FEMA work order. However, production will also perform QA as required. The QSS also monitors the SP's performance of GSE repairs using the QASP.

C-5.6.1.2.1 Perform Electrical & Mechanical Repairs

The SP shall perform electrical and mechanical repair on ground support equipment (GSE) such as work stands, engine trailers, transportation dollies, mobile power units, jacks, and all components associated with the equipment. Equipment will be repaired and maintained in conformance with requirements in the *Office of the Chief of Naval Operations Instruction (OPNAVINST) 4790.2, NAMP*.

The SP shall make every effort to repair GSE at requestor's location within the Depot, using electrical, mechanical, and hydraulic troubleshooting techniques. This service requires SP personnel to travel to locations throughout the Depot facility, transporting any necessary tools, and test equipment required to accomplish equipment repair. With the equipment inspection complete, if an on-location repair is not feasible, the SP shall tag the equipment "out of service" and notify the Government GSE equipment specialist for pickup and delivery to Building 154. The SP shall then make necessary repairs IAW the requirements of this PWS.

See TE 3.23 for a list of GSE electrical and mechanical work orders for fiscal year 2002.

C-5.6.1.2.2 Repair Portable Air Conditioners

The SP shall inspect, repair, maintain, operate, and test portable cooling equipment and related system components up to 25 tons. System components include diesel engines, drive assemblies, compressors, fans, electrical controls, coils, ductwork, and filters.

See TE 3.24 for a list of GSE portable air conditioner work orders for fiscal year 2002.

C-5.6.1.2.3 *Repair Tires & Wheels*

The SP shall remove, repair, replace, and install aeronautical support equipment tires and wheels of three basic types: solid rim, split rim, and demountable flange. Complete tear down and build up of wheel assemblies including bearing replacement and preservation may be required.

Due to unusual safety hazards associated with aeronautical tire and wheel assemblies, the SP shall place special emphasis on proper identification, handling, and maintenance procedures. Individuals performing tire and wheel maintenance shall train and be certified per requirements listed in Figures 7-9 through 7-13 of the *OPNAVINST 4790.2, Volume V*.

All GSE tire and wheel maintenance shall be performed IAW *OPNAVINST 4790.2, NAMP, Volume 5, Chapter 7*.

See TE 3.25 for a list of GSE tire and wheel work orders for fiscal year 2002.

C-5.6.1.2.4 *Repair Hydraulic Carts*

The SP shall setup, operate, adjust, and reconfigure electrical and diesel-powered hydraulic service units, purifying systems and associated hoses, valves, gauges, connectors and related devices.

See TE 3.26 for a list of GSE hydraulic cart work orders for fiscal year 2002.

C-5.6.1.2.5 *Repair Aircraft Starters*

The SP shall inspect, test, repair, and perform intermediate-level maintenance on Model GTC-100-82 gas turbine engines for aircraft air starter units IAW technical publications *A1 580AB-IPB-400, Pneumatic and Shaft Power Gas Turbine Engine* and *A1 580AB-MMI-200, Pneumatic and Shaft Power Gas Turbine Engine*. Gas turbine engine maintenance requires troubleshooting and replacement of sub-components such as fuel controls, modulating valves, centrifugal switches, flow dividers and various electrical components, and operational performance tests.

See TE 3.27 for a partial list of GSE aircraft starter work orders for fiscal year 2002.

C-5.6.1.2.6 *Repair High-Pressure Gas Carts*

The SP shall inspect, test, and repair Model NAN-4, NAN-3, and NAN-2 nitrogen servicing carts. The SP shall confirm hydrostatic test dates, verify the units comply with hydrostatic requirements, remove and repair high-pressure control valves, regulator valves, relief valves and all associated tubing. Due to the extreme hazards associated with high-pressure gasses and the potential threat to personal injury or loss of life, the SP shall place special emphasis on all maintenance procedures outlined in technical publications *NA 19-25B-15, Air Nitrogen Servicing Unit* and *AG-750AO-0MM-000, Nitrogen Servicing Cart*.

See TE 3.28 for a list of GSE high-pressure gas cart work orders for fiscal year 2002.

C-5.6.1.3 Provide Metal Repair Services

The SP shall repair metal products, plant equipment, and metal structural components. Repair processes include mechanical joining and fastening, brazing, soldering, bead welding, tack welding, spot welding, butt-welding, pressure welding, flame cutting, plasma cutting, preheating, and heat-treating. The SP shall apply repair processes above and belowground in horizontal, vertical, and overhead positions and in confined entry spaces. Welding techniques include SMAW, GMAW, and GTAW.

Metals include steel, cast steel, galvanized steel, stainless steel, iron, cast iron, aluminum, copper, molybdenum, and other ferrous and non-ferrous alloys. Light and heavy gauge metals may be strengthened or hardened. Metals may be in the form of structural shapes or other plate, bar, round, angle, pipe, or tubing stock.

When performing hot work in areas other than those designated for such work in the Plant Maintenance Building (Building 83), the SP shall obtain a hot work permit before commencement of work. The MCAS Fire Department will issue hot work permits to the SP IAW *NAVAVNDEPOTINST 11320.1, Fire Protection Plan*.

SP employees who weld in performing work under this PWS shall become qualified, maintain qualification, and have certification per:

- *American Welding Society Structural Welding Code Steel, D1.1*
- *American Welding Society Specification for Fusion Welding and Aerospace Applications, D17.1*
- *NAVAIR 01-1A-34, Aeronautical and Support Equipment Welding*
- *CP 09-3-R-5948, Inspection and Testing Local Process Specification*
- For pressure systems (e.g., piping, pressure vessels, tanks, and heat exchangers) *American Society of Mechanical Engineers Boiler and Pressure Vessel Sec. IX, Qualification Standards for Welding and Brazing Procedures, Welders, Brazers, and Welding Brazing Operators*.

SP personnel who make metal repairs in performing work under this PWS shall:

- Repair weight-handling equipment IAW *NAVAIRDEPOTINST 4750.4, Aircraft Sling and Lifting Component Devices* and ensure all welding passes nondestructive inspection and meets all specifications.
- Repair overhead hoists IAW *NAVFAC P-307, Management of Weight Handling Equipment (MHE)*.

- Repair aircraft run-up restraint fittings and tie downs IAW *NAVAIR 17-1-537, Aircraft Restraining Devices and Related Components*.
- Weld structural components and pressure vessels IAW *Subpart Q of Code of Federal Regulations, 29 CFR 1910, Occupational Safety, and Health Administration (OSHA) General Industry Standards for Structural And Pressure Vessel Welding*.
- Follow weld procedure specifications as the Government may provide with FEMA work orders.

See TE 3.29 for a list of metal repair work orders for fiscal year 2001.

C-5.6.1.4 Provide Pipefitting Services

The SP shall adjust, repair, unclog, and replace leaky joints, valves and lines as required to maintain proper and efficient operation of all related piping systems to include air, steam, and water.

See TE 3.30 for a list of pipefitting work orders for fiscal year 2001.

C-5.6.1.5 Provide Sheetmetal Repair Services

The SP shall perform sheetmetal repairs to buildings, structures, facilities, and installed plant equipment. Repairs include fabrication, installation, repair, and replacement of parts or complete assemblies and their components. Examples of sheetmetal repairs include components of buildings, parts of installed plant equipment, utility systems, drainage, duct systems, flashing, doors and frames, and awnings. Metalworking techniques include heating and bending, drilling, torch cutting, machining, grinding, sawing, and fitting of metals.

See TE 3.31 for a list of sheetmetal repair work orders for fiscal year 2001.

C-5.6.1.6 Repair Heating, Ventilation, Air Conditioning & Refrigeration Systems

The SP shall inspect, repair, maintain, operate, and test heating, ventilation, air conditioning, and refrigeration (HVAC&R) systems, evaporative cooling equipment, and their components up to 500 tons. Air conditioning and refrigeration equipment is of varying sizes and makes and includes screw, reciprocating, centrifugal, and semi-hermetic chillers. Maintenance and repair on HVAC&R components includes compressors, blowers, fans, service valves, expansion valves, dampers, condensers, cooling towers, pumps, purge units, various control systems, duct work, mixing boxes to include variable air volume (VAV) boxes, air handling units, thermostats, piping, motors, drive assemblies, evaporators, air filters, oil filters, vents, air conditioning enclosures for industrial equipment, and various other essential components. The SP shall ensure the equipment operates continually in an effective manner and at the required loads and temperatures as specified in *NAVAVNDEPOTINST 11300.2, Energy Conservation Program*.

The SP shall maintain temperature and pressure controls of electrical/electronic microprocessor, and pneumatic types, to include thermostats. The SP shall ensure correctly calibrated controls so air conditioning and refrigeration equipment operates within manufacturers' recommended specifications. The SP shall investigate erratic readings and make any necessary corrections within one working day after inspection. Periodically, as part of the Periodic Maintenance/Periodic Maintenance Inspection (PM/PMI) and after repairs to control units, the SP shall observe the operation of the controls through the complete cooling and heating cycle to ensure that the system is operating correctly.

See TE 3.32 for a list of HVAC&R repair work orders for fiscal year 2001.

C-5.6.1.6.1 *Maintain Environmentally Controlled Facilities*

Controlled conditions are required to process certain aeronautical components. *NAVAIRDEPOTINST 11100.1, Environmentally Controlled Facilities (Clean Rooms)* describes such facilities as well as specifying humidity, temperature, filtration, and pressures for each class of facility.

The SP shall service, inspect, maintain, repair, and monitor environmentally controlled facilities IAW *NAVAIRDEPOTINST 11100.1, Environmentally Controlled Facilities*.

The Depot does not have separate work orders for maintaining environmentally controlled facilities. The forecast of required work is included in Section C-7.2 of this PWS.

See TE 3.33 for a list of environmentally controlled facilities, class, ISO 14000 classification, and location.

C-5.6.1.6.2 *Maintain Industrial Compound Freezers*

Industrial compound freezers use cascade systems with dual compressors and mixed refrigerants to maintain ultra-low temperatures of -40 to -100 degrees F. These include So-Low freezers and walk-in freezers used to maintain various types of compounds used in production. The SP shall service, inspect, maintain, repair and monitor industrial compound freezers IAW *LES CP 08-0-Q-5693, Paragraph 8.3.2*.

See TE 3.34 for a list of industrial compound freezer repair work orders for fiscal year 2001.

C-5.6.1.6.3 *Perform Air Balancing*

The SP shall perform air balancing and measure and record the volume of airflow (cubic feet per minute - CFM) within buildings IAW industry standards and *NAVFAC MO-114, Maintenance and Operation of Ventilation Systems*. The SP

shall troubleshoot, adjust, and repair deficient conditions as needed based on manufacturer/building specifications, blueprints, and customer request(s).

The Depot does not have separate work orders for performing air balancing. The forecast of required work is included in C-7.2.

C-5.6.1.6.4 *Maintain Hydronic Systems Cooling Water*

The SP shall repair all maintenance-related problems to cooling water or hydronic systems per FEMA work order. Maintenance-related problems include fouling observed on waterside heat exchange surfaces.

See TE 3.35 for a list of cooling tower work orders for fiscal year 2001.

C-5.6.1.7 *Provide Woodworking & Carpentry Repair Services*

The SP shall perform woodworking and carpentry services required for maintenance and repair to the interiors and exteriors of buildings, facilities, and structures within the Depot. All woodworking and carpentry work shall be consistent with the construction and appearance of the existing facilities, unless otherwise directed.

See TE 3.36 for a list of woodwork and carpentry repair work orders for fiscal year 2001.

C-5.6.1.8 *Provide Maintenance Painting Services*

The SP shall perform painting services for support equipment, and to the interior and exteriors of buildings, structures, facilities and plant equipment. The SP shall protect all property, both Government and privately owned by other SPs from damage (e.g. paint droppings) while painting.

The SP shall prepare, paint and seal items such as walls, ceilings, railings, floors, window frames, doors, doorframes, moldings, handrails, stairs, roofs, fences and plant equipment. The SP shall paint different types of surfaces, such as wood, drywall, plaster, metal, concrete, asphalt, masonry, fiberglass, plastic, and glass using brushes, spray guns, and any other means of application as necessary. The SP shall ensure that all finished surfaces are free of runs, drips, ridges, waves, laps, brush marks, and any variations in color, texture, and finish. Paint surfaces, adjoining other materials or colors shall be sharp and clean and shall not overlap.

See TE 3.37 for a list of maintenance painting work orders for fiscal year 2001.

C-5.6.2 *Requirements*

The SP shall perform the following:

- C-5.6.1.1 – Repair Industrial Controls
 - C-5.6.1.1.1 – Provide Industrial Controls Maintenance

- Repair complex industrial control systems.
- C-5.6.1.1.2 – Repair Machine Tools
 - Repair complex machine tools.
- C-5.6.1.1.3 – Repair Overhead Hoist
 - Repair weight-handling equipment including overhead hoists, jib cranes, and mobile cranes, as described in Section C-5.5.1.1.
- C-5.6.1.2 – Repair Ground Support Equipment
 - C-5.6.1.2.1 – Perform Electrical and Mechanical Repairs
 - Perform electrical and mechanical repair on GSE such as work stands, engine trailers, transportation dollies, mobile power units, jacks, and all components associated with the equipment.
 - C-5.6.1.2.2 – Repair Portable Air Conditioners
 - Inspect, repair, maintain, operate, and test portable cooling equipment and related system components up to 25 tons.
 - C-5.6.1.2.3 – Repair Tires & Wheels
 - Remove, repair, replace, and install aeronautical support equipment tires and wheels of three basic types: solid rim, split rim, and demountable flange.
 - C-5.6.1.2.4 – Repair Hydraulic Carts
 - Setup, operate, adjust, and reconfigure electrical and diesel-powered hydraulic service units, purifying systems and associated hoses, valves, gauges, connectors and related devices.
 - C-5.6.1.2.5 – Repair Aircraft Starters
 - Inspect, test, repair, and perform intermediate-level maintenance on Model GTC-100-82 gas turbine engines for aircraft air starter units IAW technical publications *A1 580AB-IPB-400, Pneumatic and Shaft Power Gas Turbine Engine* and *A1 580AB-MMI-200, Pneumatic and Shaft Power Gas Turbine Engine*.

- C-5.6.1.2.6 – Repair High-Pressure Gas Carts
 - Inspect, test, and repair Model NAN-4, NAN-3, and NAN-2 nitrogen servicing carts.
- C-5.6.1.3 – Provide Metal Repair Services
 - Repair metal products, plant equipment, and metal structural components.
- C-5.6.1.4 – Provide Pipefitting Services
 - Adjust, repair, unclog, and replace leaky joints, valves and lines as required to maintain proper and efficient operation of all related piping systems to include air, steam, and water.
- C-5.6.1.5 – Provide Sheetmetal Repair Services
 - Perform sheetmetal repairs to buildings, structures, facilities, and installed plant equipment.
- C-5.6.1.6 – Repair Heating Ventilation, Air Conditioning & Refrigeration Systems
 - Inspect, repair, maintain, operate, and test HVAC&R and evaporative cooling equipment and their components up to 500 tons.
 - C-5.6.1.6.1 – Maintain Environmentally Controlled Facilities
 - Service, inspect, maintain, repair, and monitor environmentally controlled facilities IAW *NAVAIRDEPOTINST 11100.1, Environmentally Controlled Facilities.*
 - C-5.6.1.6.2 – Maintain Industrial Compound Freezers
 - Service, inspect, maintain, repair, and monitor industrial compound freezers IAW *LES CP 08-0-Q-5693, Paragraph 8.3.2.*
 - C-5.6.1.6.3 – Perform Air Balancing
 - Perform air balancing and measure and record the volume of airflow (CFM) within buildings IAW industry standards and *NAVFAC MO-114, Maintenance and Operation of Ventilation Systems.*

- C-5.6.1.6.4 – Maintain Hydronic Systems Cooling Water
 - Repair all maintenance-related problems to cooling water or hydronic systems per FEMA work order.
- C-5.6.1.7 – Provide Woodworking and Carpentry Repair Services
 - Perform woodworking and carpentry services required for maintenance and repair to the interiors and exteriors of buildings, facilities, and structures within the Depot.
- C-5.6.1.8 – Provide Maintenance Painting Services
 - Perform painting services for support equipment, and to the interior and exteriors of buildings, structures, facilities and plant equipment.

C-5.6.3 Performance Requirements Summary

C-5.6 Reactive Maintenance Services			
Requirements	Performance Requirements Summary		
C-5.6.1 – Repair Industrial Controls	Quality	AQL	Lot
C-5.6.1.1.1 – Provide Industrial Controls Maintenance			
Repair complex industrial control systems	Work performed completely and accurately IAW technical and quality requirements of each work order	5%	Monthly
	Timeliness	AQL-MAX	
	Work accomplished IAW start and completion dates on the work order	5% – Max is same as standard	
C-5.6.1.1.2 – Repair Machine Tools	Quality	AQL	Lot
Repair complex machine tools	Work performed completely and accurately IAW technical and quality requirements of each work order	5%	Monthly
	Timeliness	AQL-MAX	
	Work accomplished IAW start and completion dates on the work order	5% – Max is same as standard	
C-5.6.1.1.3 – Repair Overhead Hoists	Quality	AQL	Lot
Repair weight-handling equipment including overhead hoists, jib cranes, and mobile cranes, as described in Section C-5.5.1.1	Work performed completely and accurately IAW technical and quality requirements of each work order	5%	Monthly
	Timeliness	AQL-MAX	
	Work accomplished IAW start and completion dates on the work order	5% – Max is same as standard	
C-5.6.1.2 – Repair Ground Support Equipment	Quality	AQL	Lot
C-5.6.1.2.1 – Perform Electrical and Mechanical Repairs			

C-5.6 Reactive Maintenance Services			
Requirements	Performance Requirements Summary		
Perform electrical and mechanical repair on GSE such as work stands, engine trailers, transportation dollies, mobile power units, jacks, and all components associated with the equipment	Work performed completely and accurately IAW technical and quality requirements of each work order	5%	Monthly
	Timeliness	AQL-MAX	
	Work accomplished IAW start and completion dates on the work order	5% – Max is same as standard	
C-5.6.1.2.2 – Repair Portable Air Conditioners	Quality	AQL	Lot
Inspect, repair, maintain, operate, and test portable cooling equipment and related components up to 25 tons	Work performed completely and accurately IAW technical and quality requirements of each work order	5%	Monthly
	Timeliness	AQL-MAX	
	Work accomplished IAW start and completion dates on the work order	5% – Max is same as standard	
C-5.6.1.2.3 – Repair Tires and Wheels	Quality	AQL	Lot
Remove, repair, replace, and install aeronautical support equipment tires and wheels of three basic types: solid rim, split rim, and demountable flange	Work performed completely and accurately IAW technical and quality requirements of each work order	5%	Monthly
	Timeliness	AQL-MAX	
	Work accomplished IAW start and completion dates on the work order	5% – Max is same as standard	
C-5.6.1.2.4 – Repair Hydraulic Carts	Quality	AQL	Lot
Setup, operate, adjust, and reconfigure electrical and diesel-powered hydraulic service units, purifying systems and associated hoses, valves, gauges, connectors and related devices	Work performed completely and accurately IAW technical and quality requirements of each work order	5%	Monthly

C-5.6 Reactive Maintenance Services			
Requirements	Performance Requirements Summary		
	Timeliness	AQL-MAX	
	Work accomplished IAW start and completion dates on the work order	5% – Max is same as standard	
C-5.6.1.2.5 – Repair Aircraft Starters	Quality	AQL	Lot
Inspect, test, repair, and perform intermediate-level maintenance on Model GTC-100-82 gas turbine engines for aircraft air starter units IAW technical publications A1 580AB IPB-400, <i>Pneumatic and Shaft Power Gas Turbine Engine</i> and A1 580 AB-MMI-200, <i>Pneumatic and Shaft Power Gas Turbine Engine</i>	Work performed completely and accurately IAW technical and quality requirements of each work order	5%	Monthly
	Timeliness	AQL-MAX	
	Work accomplished IAW start and completion dates on the work order	5% – Max is same as standard	
C-5.6.1.2.6 – Repair High-Pressure Gas Carts	Quality	AQL	Lot
Inspect, test, and repair Model NAN-4, NAN-3, and NAN-2 nitrogen servicing carts	Work performed completely and accurately IAW technical and quality requirements of each work order	5%	Monthly
	Timeliness	AQL-MAX	
	Work accomplished IAW start and completion dates on the work order	5% – Max is same as standard	
C-5.6.1.3 – Provide Metal Repair Services	Quality	AQL	Lot
Repair metal products, plant equipment, and metal structural components	Work performed completely and accurately IAW technical and quality requirements of each work order	5%	Monthly
	Timeliness	AQL-MAX	
	Work accomplished IAW start and completion dates on the work order	5% – Max is same as standard	

C-5.6 Reactive Maintenance Services			
Requirements	Performance Requirements Summary		
C-5.6.1.4 – Provide Pipefitting Services	Quality	AQL	Lot
Adjust, repair, unclog, and replace leaky joints, valves and lines as required to maintain proper and efficient operation of all related piping systems to include air, steam, and water	Work performed completely and accurately IAW technical and quality requirements of each work order	5%	Monthly
	Timeliness	AQL-MAX	
	Work accomplished IAW start and completion dates on the work order	5% – Max is same as standard	
C-5.6.1.5 – Provide Sheetmetal Repair Services	Quality	AQL	Lot
Perform sheetmetal repairs to buildings, structures, facilities, and installed plant equipment	Work performed completely and accurately IAW technical and quality requirements of each work order	5%	Monthly
	Timeliness	AQL-MAX	
	Work accomplished IAW start and completion dates on the work order	5% – Max is same as standard	
C-5.6.1.6 – Repair HVAC&R Systems	Quality	AQL	Lot
Inspect, repair, maintain, operate, and test HVAC&R and evaporative cooling equipment and their components up to 500 tons	Work performed completely and accurately IAW technical and quality requirements of each work order	5%	Monthly
	Timeliness	AQL-MAX	
	Work accomplished IAW start and completion dates on the work order	5% – Max is same as standard	
C-5.6.1.6.1 – Maintain Environmentally Controlled Facilities	Quality	AQL	Lot
Service, inspect, maintain, repair, and monitor environmentally controlled facilities IAW <i>NAVAIRDEPOTINST 11100.1</i> , <i>Environmentally Controlled Facilities</i>	Work performed completely and accurately IAW technical and quality requirements of each work order	5%	Monthly

C-5.6 Reactive Maintenance Services			
Requirements	Performance Requirements Summary		
	Timeliness	AQL-MAX	
	Work accomplished IAW start and completion dates on the work order	5% – Max is same as standard	
C-5.6.1.6.2 – Maintain Industrial Compound Freezers	Quality	AQL	Lot
Service, inspect, maintain, repair, and monitor industrial compound freezers IAW LES CP 08-0-Q-5693, Paragraph 8.3.2	Work performed completely and accurately IAW technical and quality requirements of each work order	5%	Monthly
	Timeliness	AQL-MAX	
	Work accomplished IAW start and completion dates on the work order	5% – Max is same as standard	
C-5.6.1.6.3 – Perform Air Balancing	Quality	AQL	Lot
Perform air balancing and measure and record the volume of airflow (CFM) within buildings IAW industry standards and NAVFAC MO-114, <i>Maintenance and Operation of Ventilation Systems</i>	Work performed completely and accurately IAW technical and quality requirements of each work order	5%	Monthly
	Timeliness	AQL-MAX	
	Work accomplished IAW start and completion dates on the work order	5% – Max is same as standard	
C-5.6.1.6.4 – Maintain Hydronic Systems Cooling Water	Quality	AQL	Lot
Repair all maintenance-related problems to cooling water or hydronic problems per FEMA work order	Work performed completely and accurately IAW technical and quality requirements of each work order	5%	Monthly
	Timeliness	AQL-MAX	
	Work accomplished IAW start and completion dates on the work order	5% – Max is same as standard	

C-5.6 Reactive Maintenance Services			
Requirements	Performance Requirements Summary		
C-5.6.1.7 – Provide Woodworking & Carpentry Repairs	Quality	AQL	Lot
Perform woodworking and carpentry services required for maintenance and repair to the interiors and exteriors of buildings, facilities, and structures within the Depot	Work performed completely and accurately IAW technical and quality requirements of each work order	5%	Monthly
	Timeliness	AQL-MAX	
	Work accomplished IAW start and completion dates on the work order	5% – Max is same as standard	
C-5.6.1.8 – Provide Maintenance Painting	Quality	AQL	Lot
Perform painting services for support equipment, and to the interior and exteriors of buildings, structures, facilities and plant equipment	Work performed completely and accurately IAW technical and quality requirements of each work order	5%	Monthly
	Timeliness	AQL-MAX	
	Work accomplished IAW start and completion dates on the work order	5% – Max is same as standard	